BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

e of the work: **Estimate for Improvements to Roads and Drains at BEL 2nd Block in Ward No. ,(Doddabommasandra) Vidyaranyapura Sub Division.**

						Estimate Cost:		4000000.00
Description	Unit	No.	L	B	D	Qty	Rate	Amount
KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 138 / Item No. 19.1 / PWD SR 2014-15**	Cum							
For New Drain BEL 2nd Block 3rd Cross		2	180.00	1.00	0.90	324.00		
Desilting of Drains								
BEL 2nd Block 1st Main Road		2	220.00	0.60	0.35	92.40		
BEL 2nd Block 2nd Main Road		2	220.00	0.60	0.35	92.40		
BEL 2nd Block 3rd Main Road		2	220.00	0.60	0.35	92.40		
BEL 2nd Block 3rd Cross Road		2	180.00	0.60	0.35	75.60		
BEL 2nd Block 4th Cross Road		2	180.00	0.60	0.35	75.60		
						752.40	75.60	**56881.00**
Basic Rate	70.00							
Area Weightage @8%	5.60							
Total	**75.60**							
KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2014-15**	Cum							
For New Drain BEL 2nd Block 3rd Cross		2	180.00	1.00	0.15	54.00		
						54.00	4847.04	**261740.00**
Basic Rate	4488.00							
Area Weightage @8%	359.04							
Total	**4847.04**							
KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2014-15**	Sqm							
For New Drain BEL 2nd Block 3rd Cross		2x4	180.00		0.60	864.00		
						864.00	292.68	**252876.00**
Basic Rate	271.00							
Area Weightage @8%	21.68							

Description	Unit	No.	L	B	D	Qty	Rate	Amount
Total	**292.68**							
KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **Page No. 13 / Item No. 4.11 / PWD SR 2014-15**	Cum							
BEL 2nd Block 3rd Cross Bottom		2	180.00	0.90	0.15	48.60		
Side Wall		2x2	180.00	0.15	0.60	64.80		
Covering Slab		2	180.00	0.90	0.10	32.40		
						145.80	6065.28	**884318.00**
Basic Rate	5616.00							
Area Weightage @8%	449.28							
Total	**6065.28**							
KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2014-15**	Tonne							
		0.06	145.80			**8.75**		
						8.75	78351.84	**685422.00**
Basic Rate	72548.00							
Area Weightage @8%	5803.84							
Total	**78351.84**							
Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **Page No. 154 / I. 20.18 PWD SR - 2014-15**	Cum							

l. o	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	BEL 2nd Block 1st Main Road		1	220.00	5.50	0.15	181.50		
	EL 2nd Block 2nd Main Road		1	220.00	5.50	0.15	181.50		
	BEL 2nd Block 3rd Main Road		1	220.00	5.50	0.15	181.50		
	BEL 2nd Block 3rd Cross Road		1	180.00	5.00	0.15	135.00		
	BEL 2nd Block 4th Cross Road		1	180.00	5.00	0.15	135.00		
							814.50		
	Consider 30% for Road Cutting and Shoulders						244.35		
							244.35	1438.56	**351512.00**
	Basic Rate	1332.00							
	Area Weightage @ 8%	106.56							
	Total	**1438.56**							
	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 Kg / sqm using mechnical means complete as per specifications. MORTH specification NO. 502, **Page No. 157 / Item No. 21.6 / PWD SR 2014-15**	Sqm							
	BEL 2nd Block 1st Main Road		1	220.00	5.50		1210.00		
	BEL 2nd Block 2nd Main Road		1	220.00	5.50		1210.00		
	BEL 2nd Block 3rd Main Road		1	220.00	5.50		1210.00		
	BEL 2nd Block 3rd Cross Road		1	180.00	5.00		900.00		
	BEL 2nd Block 4th Cross Road		1	180.00	5.00		900.00		
							5430.00	31.32	**170068.00**
	asper Revised Basic Rate	29.00							
	Area Weightage @ 8%	2.32							
	Total	**31.32**							
	KSRRB M500-18: Providing and laying **semi dense bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. **with 100-120 TPH capacityH.M.P with sensor paver Gr-II (25 mm to 30 mm) with 5 % VG-30 Bitumen Page No. 159 / Item No. 21.20.2 / PWD SR 2014-15**	Cum							
	BEL 2nd Block 1st Main Road		1	220.00	5.50	0.025	30.25		
	BEL 2nd Block 2nd Main Road		1	220.00	5.50	0.025	30.25		
	BEL 2nd Block 3rd Main Road		1	220.00	5.50	0.025	30.25		
	BEL 2nd Block 3rd Cross Road		1	180.00	5.00	0.025	22.50		
	BEL 2nd Block 4th Cross Road		1	180.00	5.00	0.025	22.50		
							135.75		
	Consider 10% for Depression Filling						13.58		
							149.33	8475.84	**1265655.00**
	as per Revised Basic Rate	7848.00							
	Area Weightage @ 8%	627.84							
	Total	**8475.84**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
9	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				**413.82**	73.57	**30445.00**
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.130 PWD SR 2014-15	63.00							
		68.12							
	Area Weightage @ 8%	5.45							
	Total	**73.57**							
10	Sub Total								**3958917.00**
11	For Third Party QC Charges @ 1%								**39589.00**
12	Miscellaneous and other Charges	L/S							**1494.00**
								Total	**4000000.00**

(Rs.Fourty Lakhs Only)

CERTIFICATE:

The work spot has been inspected and the work is found necessary.
This estimate is prepared as per P.W.D S.R of 2014-15.
The provisions were made in this estimate are necessary and adequate.
This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

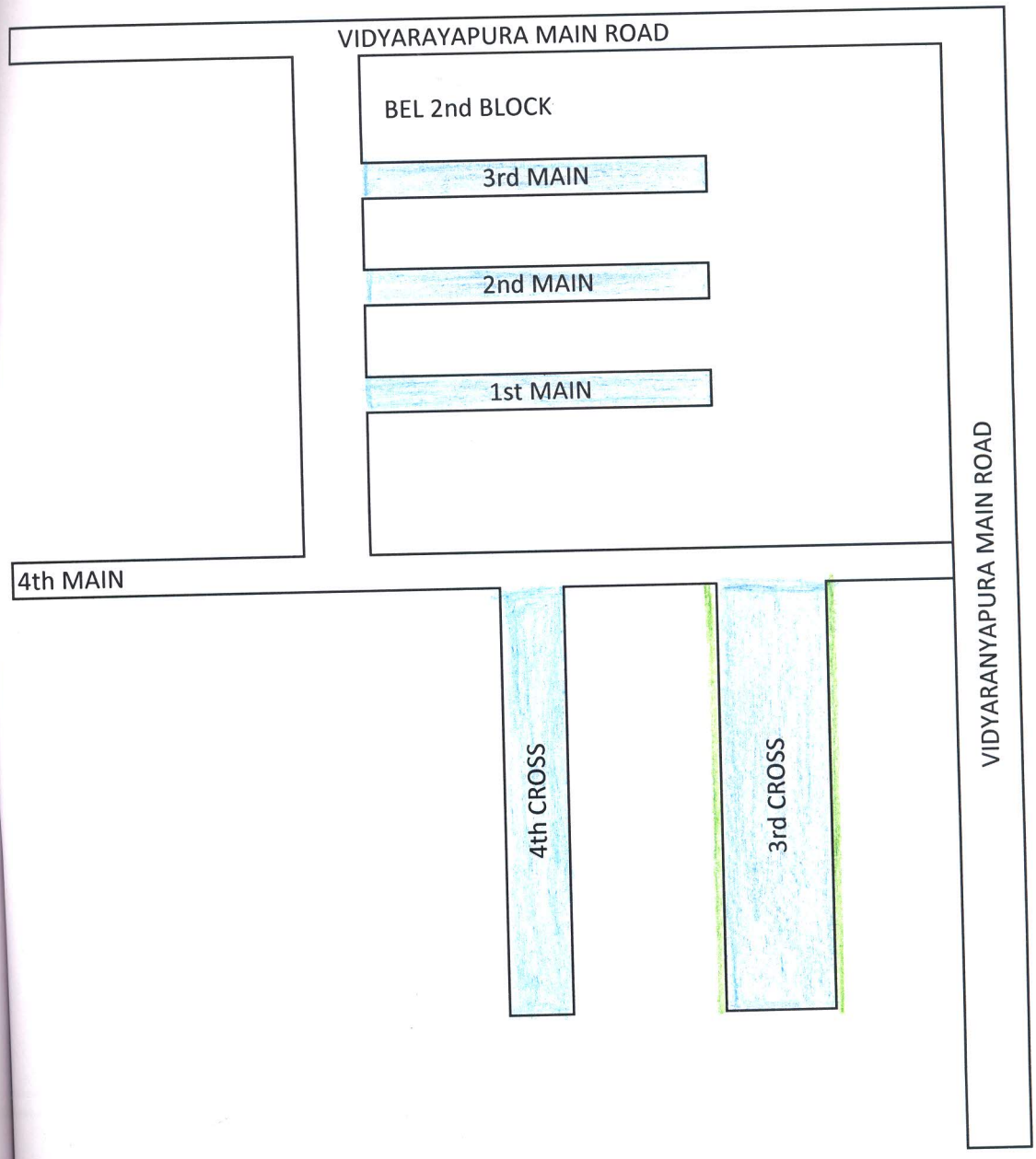
ADMINISTRATIVELY SANCTIONED FOR Rs 40.00 lakhs
Rupees Fourty lakhs only
Under P. 3089

Registered as EE ( ) No 3...9...
Subject to conditions contained in
enclosed memo EE ( ) No ...../91...
Dt ..... Estimate A/C Sanctioned
JC(4)BBMP/AS/37/2015-16
dated 20/8/2015 Rs 40,00 lakhs

Technical Sanction
Accord. 40.00 lakh Rs
Head of A/C P 3089
CER NO : 55 Dt: 21.8.15
TA
CE (YNK)

Joint Commissioner
(Yelahanka Zone)
BBMP. Bengaluru-92

Name of the Work: Improvements to Roads and Drains at BEL 2nd Block in Ward No. 10 (Doddabommasandra) Vidyaranyapura Sub Division.



Index :-

□ → proposed R.C.C. drain and covering slabs

□ → proposed Asphalting Roads

Jadhav
AE W-10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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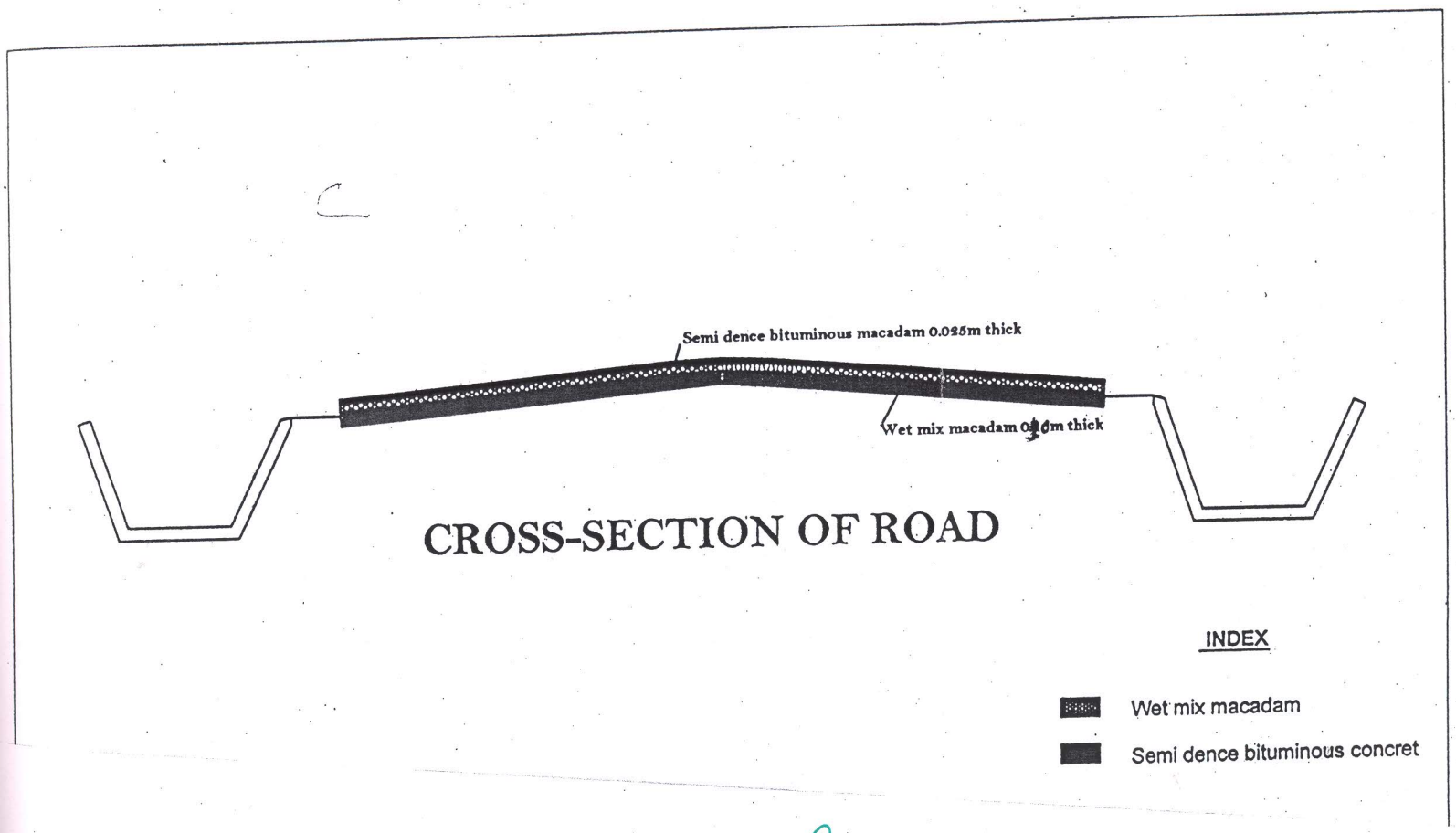
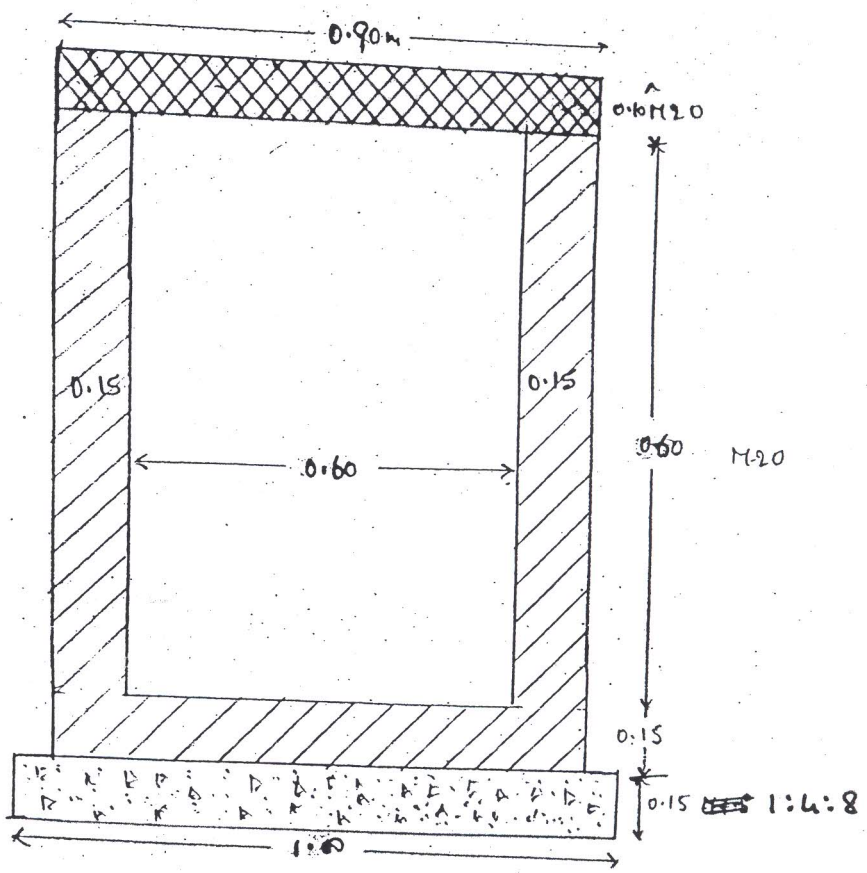


CROSS-SECTION OF ROAD

Sadhav
AE W-10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Name of Work: Improvements to Roads and Drains at BEL 2nd Block in Ward No. 10 (Doddabommasandra) Vidyaranyapura Sub Division.



CROSS SECTION OF CC DRAIN

Jadhav
AE W-10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97